

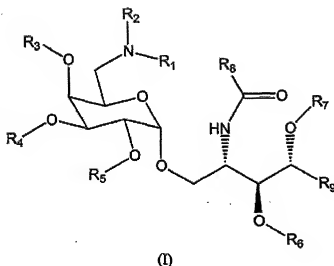
Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

The following set of claims replaces all the previous set of claims.

1. (Currently Amended) A compound of Formula (I):



wherein,

R_1 is $[[:]] -C(O)R_{10}$, wherein R_{10} is

(i) —hydrogen; or

(ii) — SO_2R_{10} ;

(iii) —wherein R_{10} is:

halo; hydroxy; OR_{11} ; OR_{12} ; amino; NHR_{11} ; $N(R_{11})_2$; NHR_{12} ; $N(R_{12})_2$;

aralkylamino; or

C_1 - C_{12} alkyl optionally substituted with halo, hydroxy, oxo, nitro, OR_{11} ; OR_{12} ;

acyloxy, amino, NHR_{11} ; $N(R_{11})_2$; NHR_{12} ; $N(R_{12})_2$; aralkylamino, mercapto, thioalkoxy,

$S(O)R_{115}$, $S(O)R_{125}$, SO_2R_{115} , SO_2R_{125} , $NHSO_2R_{115}$, $NHSO_2R_{125}$, sulfate, phosphate, cyano, carboxyl, $C(O)R_{115}$, $C(O)R_{125}$, $C(O)OR_{115}$, $C(O)NH_{25}$, $C(O)NHR_{115}$, $C(O)N(R_{115})_{25}$, C_3-C_{10} cycloalkyl containing 0-3 R_{135} , C_3-C_{10} heterocyclyl containing 0-3 R_{135} , C_2-C_6 alkenyl, C_2-C_6 alkynyl, C_5-C_{10} cycloalkenyl, C_5-C_{10} heterocycloalkenyl, C_6-C_{20} aryl containing 0-3 R_{145} , or heteroaryl containing 0-3 R_{145} , or

C_3-C_{10} cycloalkyl, C_3-C_{10} heterocyclyl, C_5-C_{10} cycloalkenyl, or C_5-C_{10} heterocycloalkenyl optionally substituted with one or more halo, hydroxy, oxo, OR_{115} , OR_{125} , acyloxy, nitro, amino, NHR_{115} , $N(R_{115})_{25}$, NHR_{125} , $N(R_{125})_{25}$, aralkylamino, mercapto, thioalkoxy, $S(O)R_{115}$, $S(O)R_{125}$, SO_2R_{115} , SO_2R_{125} , $NHSO_2R_{115}$, $NHSO_2R_{125}$, sulfate, phosphate, cyano, carboxyl, $C(O)R_{115}$, $C(O)R_{125}$, $C(O)OR_{115}$, $C(O)NH_{25}$, $C(O)NHR_{115}$, $C(O)N(R_{115})_{25}$, alkyl, haloalkyl, C_3-C_{10} cycloalkyl containing 0-3 R_{135} , C_3-C_{10} heterocyclyl containing 0-3 R_{135} , C_2-C_6 alkenyl, C_2-C_6 alkynyl, C_5-C_{10} cycloalkenyl, C_5-C_{10} heterocycloalkenyl, C_6-C_{20} aryl heteroaryl containing 0-3 R_{145} , or C_6-C_{20} heteroaryl containing 0-3 R_{145} , or

C_2-C_6 alkenyl, C_2-C_6 alkynyl, aryl, or heteroaryl optionally substituted with one or more halo, hydroxy, OR_{115} , OR_{125} , acyloxy, nitro, amino, NHR_{115} , $N(R_{115})_{25}$, NHR_{125} , $N(R_{125})_{25}$, aralkylamino, mercapto, thioalkoxy, $S(O)R_{115}$, $S(O)R_{125}$, SO_2R_{115} , SO_2R_{125} , $NHSO_2R_{115}$, $NHSO_2R_{125}$, sulfate, phosphate, cyano, carboxyl, $C(O)R_{115}$, $C(O)R_{125}$, $C(O)OR_{115}$, $C(O)NH_{25}$, $C(O)NHR_{115}$, $C(O)N(R_{115})_{25}$, alkyl, haloalkyl, C_3-C_{10} cycloalkyl containing 0-3 R_{135} , C_3-C_{10} heterocyclyl containing 0-3 R_{135} , C_2-C_6 alkenyl, C_2-C_6 alkynyl, C_5-C_{10} cycloalkenyl, C_5-C_{10} heterocycloalkenyl, C_6-C_{20} aryl containing 0-3 R_{145} , or C_6-C_{20} heteroaryl containing 0-3 R_{145} , or

(iii) $C(O)R_{105}$, wherein R_{105} is defined as above; or

(iv) $C(R_{105})_2(R_{155})$, wherein R_{105} is defined as above; R_{155} is hydrogen, R_{105} , or R_{15} and R_2 taken together forms a double bond between the carbon and nitrogen atoms to which they are attached; or

(v) R_1 and R_2 taken together forms a heterocyclyl of 3-10 ring atoms optionally substituted with R_{105} ;

~~R₂ is hydrogen, or R₂ and R₄ taken together forms a double bond between the carbon and nitrogen atoms to which they are attached, or R₂ and R₄ taken together forms a heterocyclyl of 3-10 ring atoms optionally substituted with R₁₀;~~

R₃, R₄, R₅, R₆ and R₇ are each independently hydrogen, C₁-C₆ alkyl, C₆-C₁₂ aralkyl, or C₁-C₆ acyl;

R₈ is -(CH₂)_xCH₃;

R₉ is a linear or branched C₃-C₁₀₀ alkyl;

~~R₁₁ is C₁-C₂₀ alkyl optionally substituted with halo, hydroxy, alkoxy, amino, alkylamino, dialkylamino, sulfate, or phosphate;~~

~~R₁₂ is aryl optionally substituted with halo, haloalkyl, hydroxy, alkoxy, nitro, amino, alkylamino, dialkylamino, sulfate, or phosphate;~~

~~Each R₁₃ is independently halo, halo alkyl, hydroxy, alkoxy, oxo, amino, alkylamino, dialkylamino, sulfate, or phosphate;~~

~~Each R₁₄ is independently halo, halo alkyl, hydroxy, alkoxy, nitro, amino, alkyl amino, dialkylamino, sulfate, or phosphate; and~~

x is 1-100.

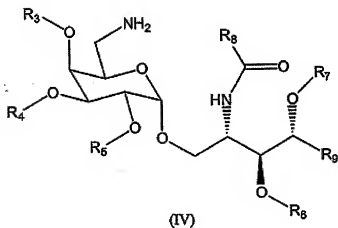
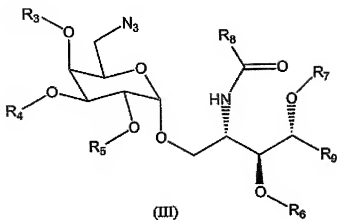
2. (Original) The compound of claim 1 wherein x is 24 and R₉ is *n*-tetradecyl.

3-17. (Cancelled)

18. (Currently Amended) A The method of claim 18 stimulating NKT cells comprising contacting an NKT cell with a compound of Formula (I) and a wherein the protein is CD1d protein.

19-23. (Cancelled)

24. (Currently Amended) A method of making a compound of Formula (I) comprising: (i) converting a compound of Formula (III) to a compound of Formula (IV):



and (ii) contacting a compound of Formula (IV) with R_1 -LG to afford a compound of Formula (I), wherein:

R_1 is $[[:]]-C(O)R_{10}$, wherein R_{10} is

(i) SO_2R_{107}

wherein R_{10} is:

halo; hydroxy; OR_{115} ; OR_{125} ; amino; NHR_{115} ; $N(R_{11})_{25}$; NHR_{125} ; $N(R_{12})_{25}$;
 aralkylamino; or

C₁-C₁₂ alkyl optionally substituted with halo, hydroxy, oxo, nitro, OR₁₁₅, OR₁₂₅, acyloxy, amino, NHR₁₁₅, N(R₁₁₅)₂₅, NHR₁₂₅, N(R₁₂₅)₂₅, aralkylamino, mercapto, thioalkoxy, S(O)R₁₁₅, S(O)R₁₂₅, SO₂R₁₁₅, SO₂R₁₂₅, NHSO₂R₁₁₅, NHSO₂R₁₂₅, sulfate, phosphate, cyano, carboxyl, C(O)R₁₁₅, C(O)R₁₂₅, C(O)OR₁₁₅, C(O)NH₂₅, C(O)NHR₁₁₅, C(O)N(R₁₁₅)₂₅, C₃-C₁₀ cycloalkyl containing 0-3 R₁₃₅, C₃-C₁₀ heterocyclyl containing 0-3 R₁₃₅, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₅-C₁₀ cycloalkenyl, C₅-C₁₀ heterocycloalkenyl, C₆-C₂₀ aryl containing 0-3 R₁₄₅, or C₆-C₂₀ heteroaryl containing 0-3 R₁₄₅; or

C₂-C₁₀ cycloalkyl, C₃-C₁₀ heterocyclyl, C₅-C₁₀ cycloalkenyl, or C₅-C₁₀ heterocycloalkenyl optionally substituted with one or more halo, hydroxy, oxo, OR₁₁₅, OR₁₂₅, acyloxy, nitro, amino, NHR₁₁₅, N(R₁₁₅)₂₅, NHR₁₂₅, N(R₁₂₅)₂₅, aralkylamino, mercapto, thioalkoxy, S(O)R₁₁₅, S(O)R₁₂₅, SO₂R₁₁₅, SO₂R₁₂₅, NHSO₂R₁₁₅, NHSO₂R₁₂₅, sulfate, phosphate, cyano, carboxyl, C(O)R₁₁₅, C(O)R₁₂₅, C(O)OR₁₁₅, C(O)NH₂₅, C(O)NHR₁₁₅, C(O)N(R₁₁₅)₂₅, alkyl, halo alkyl, C₂-C₁₀ cycloalkyl containing 0-3 R₁₃₅, C₃-C₁₀ heterocyclyl containing 0-3 R₁₃₅, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₅-C₁₀ cycloalkenyl, C₅-C₁₀ heterocycloalkenyl, C₆-C₂₀ aryl containing 0-3 R₁₄₅, or C₆-C₂₀ heteroaryl containing 0-3 R₁₄₅; or

C₂-C₆ alkenyl, C₂-C₆ alkynyl, aryl, or heteroaryl optionally substituted with one or more halo, hydroxy, OR₁₁₅, OR₁₂₅, acyloxy, nitro, amino, NHR₁₁₅, N(R₁₁₅)₂₅, NHR₁₂₅, N(R₁₂₅)₂₅, aralkylamino, mercapto, thioalkoxy, S(O)R₁₁₅, S(O)R₁₂₅, SO₂R₁₁₅, SO₂R₁₂₅, NHSO₂R₁₁₅, NHSO₂R₁₂₅, sulfate, phosphate, cyano, carboxyl, C(O)R₁₁₅, C(O)R₁₂₅, C(O)OR₁₁₅, C(O)NH₂₅, C(O)NHR₁₁₅, C(O)N(R₁₁₅)₂₅, alkyl, halo alkyl, C₃-C₁₀ cycloalkyl containing 0-3 R₁₃₅, C₃-C₁₀ heterocyclyl containing 0-3 R₁₃₅, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₅-C₁₀ cycloalkenyl, C₅-C₁₀ heterocycloalkenyl, C₆-C₂₀ aryl containing 0-3 R₁₄₅, or C₆-C₂₀ heteroaryl containing 0-3 R₁₄₅; or

(ii) C(O)R₁₀₅, wherein R₁₀₅ is defined as above; or

(iii) $-C(R_{10})_2(R_{15})$, wherein R_{10} is defined as above; R_{15} is hydrogen, R_{10} , or R_{15} and R_2 taken together forms a double bond between the carbon and nitrogen atoms to which they are attached; or

R_3 , R_4 , R_5 , R_6 , and R_7 are each independently hydrogen, C_1 - C_6 alkyl, C_6 - C_{12} aralkyl, or C_1 - C_6 acyl;

R_8 is $-(CH_2)_xCH_3$;

R_9 is a linear or branched C_3 - C_{100} alkyl;

R_{11} is C_1 - C_{20} alkyl optionally substituted with halo, hydroxy, alkoxy, amino, alkylamino, dialkylamino, sulfate, or phosphate;

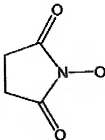
R_{12} is aryl optionally substituted with halo, halo alkyl, hydroxy, alkoxy, nitro, amino, alkylamino, dialkylamino, sulfate, or phosphate;

Each R_{13} is independently halo, halo alkyl, hydroxy, alkoxy, oxo, amino, alkylamino, dialkylamino, sulfate, or phosphate;

Each R_{14} is independently halo, halo alkyl, hydroxy, alkoxy, nitro, amino, alkylamino, dialkylamino, sulfate, or phosphate;

x is 1-100; and

LG is halo, $-OSO_2R_{16}$, $B(OH)_2$, or



R_{16} is alkyl, halo alkyl or aryl optionally substituted with alkyl, halo or nitro.

25. (Original) A pharmaceutical composition comprising a compound of Formula (I) and a pharmaceutically acceptable carrier.
26. (New) The compound of claim 1, wherein R_{10} is CH_3 ,
27. (New) The compound of claim 26, wherein R_9 is C_{14} alkyl.
28. (New) The compound of claim 27, wherein R_8 is $-(CH_2)_{24}CH_3$.
29. (New) The compound of claim 27, wherein R_8 is $-(CH_2)_{22}CH_3$.
30. (New) The compound of claim 1, wherein R_{10} is selected from $-(CH_2)_2COOH$, $-(CH_2)_3COOH$, and $-(CH_2)_4COOH$.